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# FOCUSING DEVICE OF OPTICAL DISK PLAYER

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## Abstract of JP60129934

**PURPOSE:** To attain the quick and highly accurate focusing by moving an objective lens at the 1st speed of a comparatively high level before a approximately focused state is obtained and then at the 2nd low speed which is capable of focusing with high accuracy when the approximately focused state is obtained.

**CONSTITUTION:** An objective lens 5 moves toward a disk OD at the 1st speed and a completely out-of-focus state to a slightly focused state. Thus the quantity of a main beam BM which is reflected on the disk OD and sent back to an objective lens 6 begins to increase. Then the level of the low band component of an RF signal delivered from an LPF16 rises up in a comparatively sudden way. When said low band component exceeds the reference voltage level, the switching circuit of a focus searching circuit 10 is opened. Then the rising speed of the search voltage is reduced down to 1/10. As a result, the moving speed of the lens 6 is slowed down to the 2nd speed equal to about 1/10 the 1st speed.

